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DATE MAILED: 05/01/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

28524 7590 05/01/2009
SIEMENS CORPORATION
INTELLECTUAL PROPERTY DEPARTMENT
170 WOOD AVENUE SOUTH
ISELIN. NI 08830

EXAMINER					
GEISEL, KARA E					
ART UNIT	PAPER NUMBER				
2877					

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/595,241	03/29/2006	Chris T. Zimmerle	2003P56020WOUS	5394		
TITLE OF INVENTION: PRECISION CORRECTION OF REFLECTANCE MEASUREMENTS						

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/03/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE DEE and DURI ICATION DEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence including ed below or directed of tions.	ng the Patent, advance of nerwise in Block 1, by (rders and notification of a a) specifying a new corre	maintenance fees w spondence address;	ill be and/or	mailed to the current r (b) indicating a sepa	correspondence address as ate "FEE ADDRESS" for
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ISELIN, NJ 088	30						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	:	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/595,241	03/29/2006	•	Chris T. Zimmerle		20	03P56020WOUS	5394
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	08/03/2009
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170 WOOD AVENUE SOUTH			2877			
ISELIN, NJ 08830	l .	DARWARAN ED OF 101 CODO				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 355 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 355 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/595,241 ZIMMERLE, CHRIS T. Notice of Allowability Examiner Art Unit KARA E GEISEL 2877 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to the amendment filed 03 February 2009. The allowed claim(s) is/are 1-30. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) \(\subseteq \text{Some* c) \subseteq \text{None of the:} 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

DETAILED ACTION

Drawings

The drawings were received on February 3rd, 2009. These drawings are accepted.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with G. Matthew McCloskey on April 9^{th} , 2009.

The application has been amended as follows:

In regards to claim 15, line 9, "a reflectance" has been changed to --a maximized SNR reflectance--, and in line 12, "the reflectance" has been changed to --the maximized SNR reflectance--.

The amended claim appears below:

15. A computer readable program product embodying instructions for execution by at least one processor to perform a method for correcting reflectance values measured for different test products in a reflectance-based device comprising transmitters for transmitting signals at different wavelengths to a test product and detectors configured for detecting reflectance at the different wavelengths from the test product, and a set of storage devices configured for storing reflectance values, the method comprising:

A. determining a reflectance constant for a test product at a first wavelength for which reflectance does not substantially change with the presence of a test substance:

B. with the test product loaded with the test substance, determining a <u>maximized SNR</u> reflectance at a second wavelength for which signal-to-noise ratio is maximized and determining a measured reflectance at the first wavelength; and Application/Control Number: 10/595,241

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C. determining a corrected reflectance as the product of the <u>maximized SNR</u> reflectance with a ratio of the reflectance constant to the measured reflectance.

Response to Arguments

Applicant's amendment, filed February 3rd, 2009, has overcome the drawing objections, the claim objections, and the rejection under 35 U.S.C. 112 of claims 1-22. The drawing objections, claim objections, and rejections under 35 U.S.C. 112 have been withdrawn.

Applicant's arguments, see the amendment, filed February 3rd, 2009, with respect to the rejection under 35 U.S.C. 102(e) as being anticipated by Howard, III (US Pubs 2006/0139649) have been fully considered and are persuasive. The rejection of claims 1-22 has been withdrawn.

Examiner's Reasons for Allowance

Claims 1-22 are allowed over the prior art of record for the reasons set forth in the amendment, filed February 3rd, 2009 (pages 10-11) and for the reasons set forth below.

The following is an examiner's statement of reasons for allowance:

As to claim 1, the prior art of record, taken alone or in combination, fails to disclose or render obvious a method of correcting reflectance values measured for different test products within a reflectance-based instrument, the method comprising the steps of: C. determining a corrected reflectance as the product of the maximized SNR reflectance with a ratio of the reflectance constant to the measured reflectance, in combination with the rest of the limitations of claim 1.

As to claim 8, the prior art of record, taken alone or in combination, fails to disclose or render obvious a reflectance-based system including reflectance correction for different test products within a reflectance-based instrument, the system comprising: C. a set of processors configured to execute a program configured to implement a method of correcting reflectance comprising the steps of: iii) determining a corrected reflectance as the product of the maximized SNR reflectance with a ratio of the reflectance constant to the measured reflectance, in combination with the rest of the limitations of claim 8.

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As to claim 15, the prior art of record, taken alone or in combination, fails to disclose or render obvious a computer readable program product embodying instructions for execution by at least one processor to perform a method for correcting reflectance values measured for different test products in a reflectance-based device comprising transmitters for transmitting signals at different wavelengths to a test product and detectors configured for detecting reflectance at the different wavelengths from the test product, and a set of storage devices configured for storing reflectance values, the method comprising: C. determining a corrected reflectance as the product of the maximized SNR reflectance with a ratio of the reflectance constant to the measured reflectance, in combination with the rest of the limitations of claim

As to claim 19, the prior art of record, taken alone or in combination, fails to disclose or render obvious a reflectance-based system including reflectance correction for different test products, the system comprising: E. means for determining a corrected reflectance as the product of the maximized SNR reflectance with a ratio of the reflectance constant to the measured reflectance, in combination with the rest of the limitations of claim 19.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kara E Geisel whose telephone number is **571 272 2416**. The examiner can normally be reached on Monday through Friday, 8am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on **571 272 2800 ext. 77**. The fax phone number for the organization where this application or proceeding is assigned is **571 273 8300**.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Kara E Geisel/ Primary Examiner, Art Unit 2877

May 1, 2009